POLIMASTER®

SOFTWARE GUIDE

PM1703MO SERIES
DATA PROCESSING SOFTWARE

Software for the Instrument of PM1703MO Series

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PART I – BASIC FEATURES

Chapter 1 Overview and Installation

Polimaster and our support team are committed to provide high-quality technical support to the users of our equipment and systems. This manual is indented to familiarize user with the fundamentals of the **Polimaster PM1703MO Series Data Processing Software** (further – Software)[1].

Software is installed on the personal computer (further – PC) and intended for use with the Polimaster-manufactured instruments of the **PM1703MO-XX**[2] series (further – instrument).

The manual includes a summary of the basic features, a detailed overview of advanced features, and the installation notes.

System requirements

- IBM PC – compatible PC, Pentium III processor or higher;
- 1 GB free HDD space;
- CD-ROM drive (for installation);
- Compatible operating systems:
  - Microsoft Windows Vista;
  - Microsoft Windows XP Professional;
  - Microsoft Windows 2000 Professional;
- Saved files are compatible with Microsoft® Office® Excel (recommended)
- Database file is compatible with Microsoft® Office® Access (recommended)

for instruments with IrDA interface[3]:

- Standard infrared (IR) adapter (USB or built-in);

for instruments with Bluetooth-interface[3]:

- Bluetooth adapter (USB or built-in) equipped with any driver:
  - Microsoft Windows XP (**SP2 or higher**), Windows Vista, Windows 2000
  - Widcomm or Broadcomm (**4.x.x.x version or higher**),
  - IVT Corporation (BlueSoleil) (**5.1.x.x version or higher**).

For Instruments with USB-interface[3]:

- USB cable.

[1] **Documented Software and its settings are subject to change with no substantial effect on its functionality. Polimaster reserves the right to change Software in such a way not mentioning it in Software Guides.**
[2] **XX denotes alphanumeric code of an instrument within the PM1703MO series. Look for the code in the instrument's user manual. The code informs of the way the instrument communicates with Software.**
[3] **Instrument-supported interface type is given in its user manual.**

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Attention!

- Users have to examine the manuals on PM1703MO-XX[1] to clear up the instrument-supported interface type (IrDA, Bluetooth, and USB cable) themselves.
- Adapters (IR, Bluetooth) are to be connected and set according to their in-line documentation.

Note!

- Bluetooth adapter MUST support Bluetooth serial port (SPP) protocol;
- You can check Bluetooth driver version in Device Manager>Bluetooth Device Properties>Driver folder of your PC
- Bluetooth driver version must be same or higher as listed above. If not, please download the most current driver version from manufacturer's website:

If not, please download the most recent driver version from manufacturer's website:

- Microsoft (Windows XP SP2,Windows Vista) – http://support.microsoft.com/kb/841803/en-us
- Widcomm\Boardcomm – http://broadcom.com/products/Bluetooth
- IVT Corporation (BlueSoleil) – http://bluesoleil.com/

[1] **XX denotes alphanumeric code of an instrument within the PM1703MO series. Look for the code in the instrument's user manual. The code informs of the way the instrument communicates with Software.**

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Installation

- Insert the installation CD in the computer's CD drive and follow on-the-screen commands. If the setup does not start automatically, click on **Start, Run**, and browse the CD drive for the **Setup.exe** file**.** Click **Open**;
- Click **Next** in the InstallShield window when prompted;
- Read and accept the **END USER LICENSE AGREEMENT**;
- Select the destination folder: the default location is recommended;

(Default destination is ...\\Program Files\Polimaster\PM1703MO Series Data Processing Software\);

- Check the installation settings and change if necessary by pressing **Back**. If settings are correct, press **Install**;
- Press **Finish** after installation is complete.

Chapter 2 Quick Start

The Software should be used by qualified and properly trained personnel only.

This chapter gives a brief description of the Software that allows the user to download, analyze and manage the information from the PM1703MO-XX[1] instruments.

Important Notes:

1. PM1703MO Series Data Processing Software is for use with the Polimaster PM1703MO-XX instruments only. Any attempt to communicate with other device types using this software may have unpredictable results.

2. Software communicates with the instrument by:

- **Wireless communicating device:**
  - **Standard infrared (IR) adapters compatible with the IrDA® standard (with USB interface or built-in);**
  - **Bluetooth adapter (with USB interface or built-in).**
- **USB interface:**
  - **The instrument is connected to PC by USB-cable.**

Hardware and software installation of IR adapters or Bluetooth adapters is

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not the subject of this Software guide. If you experience problems with the IR or Bluetooth adapters, please refer to the adapter's user manual or contact the seller/manufacturer.

Step 1

Initiating the IR link

IrDA communication between the PM1703MO-XX (instrument) and the PC can be initiated in two ways:

1) By installing the battery and immediately aiming the LCD screen of the instrument at IrDA dongle. You will see "IR" displayed on the instrument's LCD screen as the communications are initiated (Fig. 1) as well as the IrDA icon appears in the Windows system tray (Fig. 2).
2) Pressing the **Light** button momentarily while in front of the IrDA dongle will initiate communications if the instrument is powered on.

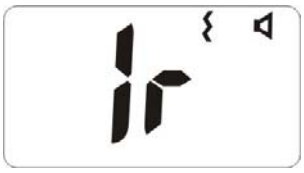

Fig. 1

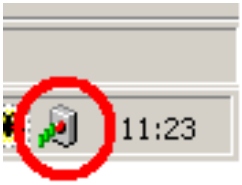

Fig. 2

Initiating the Bluetooth link

Bluetooth communication between the PM1703MO-XX (instrument) and the PC can be initiated only when Bluetooth module of the instrument is switched on.

To do it sequentially press the **MODE** button on the instrument several times until the "-oFF-" message appears on the LCD. Press the **LIGHT** button to switch the Bluetooth communication on. (Fig. 3).

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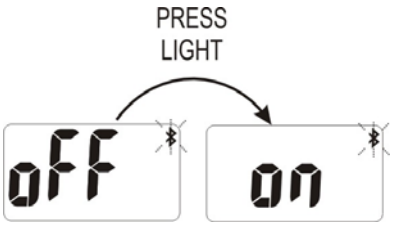

Fig. 3

You will see “PC” (Fig. 4) displayed on the instrument’s LCD screen as the Bluetooth communications are initiated as well as the Bluetooth icon changes its color in the Windows system tray (Fig. 5).

Fig. 4

Fig. 5

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If **Secured connection** option is enabled on any instrument, the Bluetooth device will ask for PIN-code or Passkey (Fig. 6) while connection setup attempt with PM1703MO-XX.

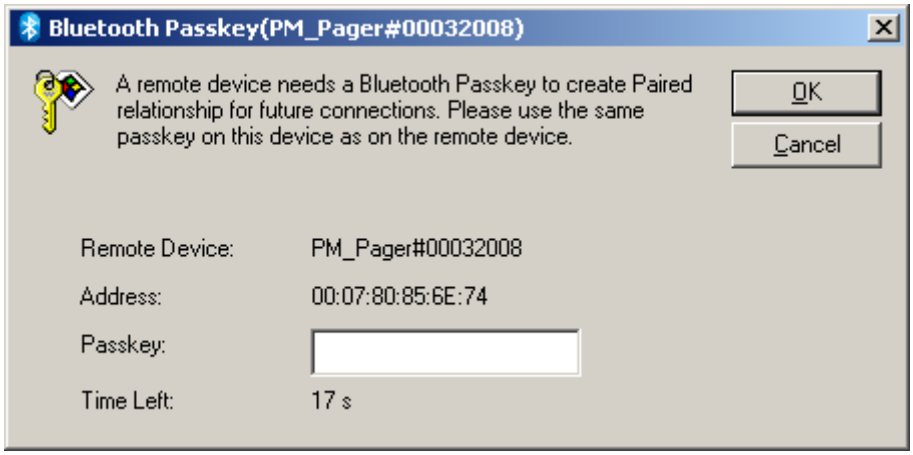

Fig. 6

The authentication process, i.e. PIN-Code exchange is a property of the **Secure connection** function. The default password is “5555”. If PIN-code exchange is successful during the initial connection, “coupled pair” or “coupled connection” will be created. Further connection inside "coupled pair" doesn't require authentication process.

To switch off the **Secure connection** function of Bluetooth device, right-click on the **Bluetooth** icon on the Windows system tray. Press **My Device Properties** in the context menu. Go to **Services** and switch off the **Secure connection** function in application properties window by unflagging the **Bluetooth serial port** check-box (Fig. 7)

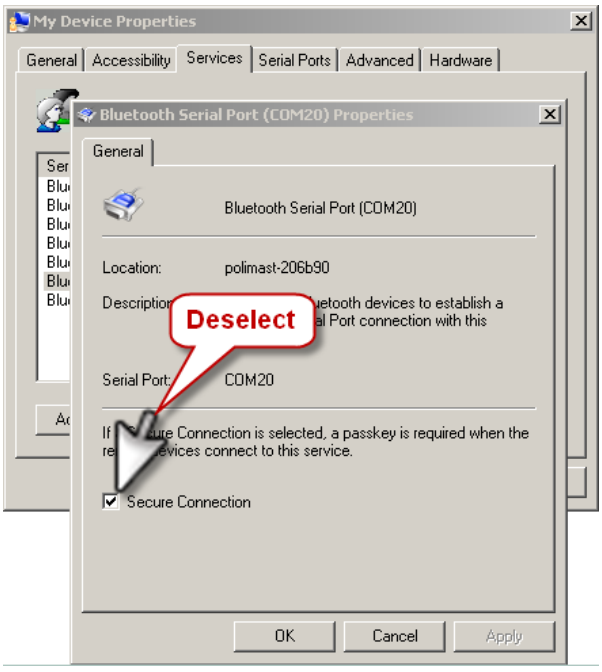

Fig. 7

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If the system still asks for PIN-code after switching off the **Secure connection** function of Bluetooth device, the inquiry source can be in the PM1703MO-XX instrument. This is a built-in security feature and cannot be disabled. If so, enter PIN-code of PM1703MO-XX. Default PIN-code of the instrument is "**5555**".

Step 2 – Starting the program

Click **Start> Programs> Polimaster> PM1703MO Series Data Processing Software> PM1703MO Series Data Processing Software** to run software.

On the first run, you will go to the main window (Fig. 8).

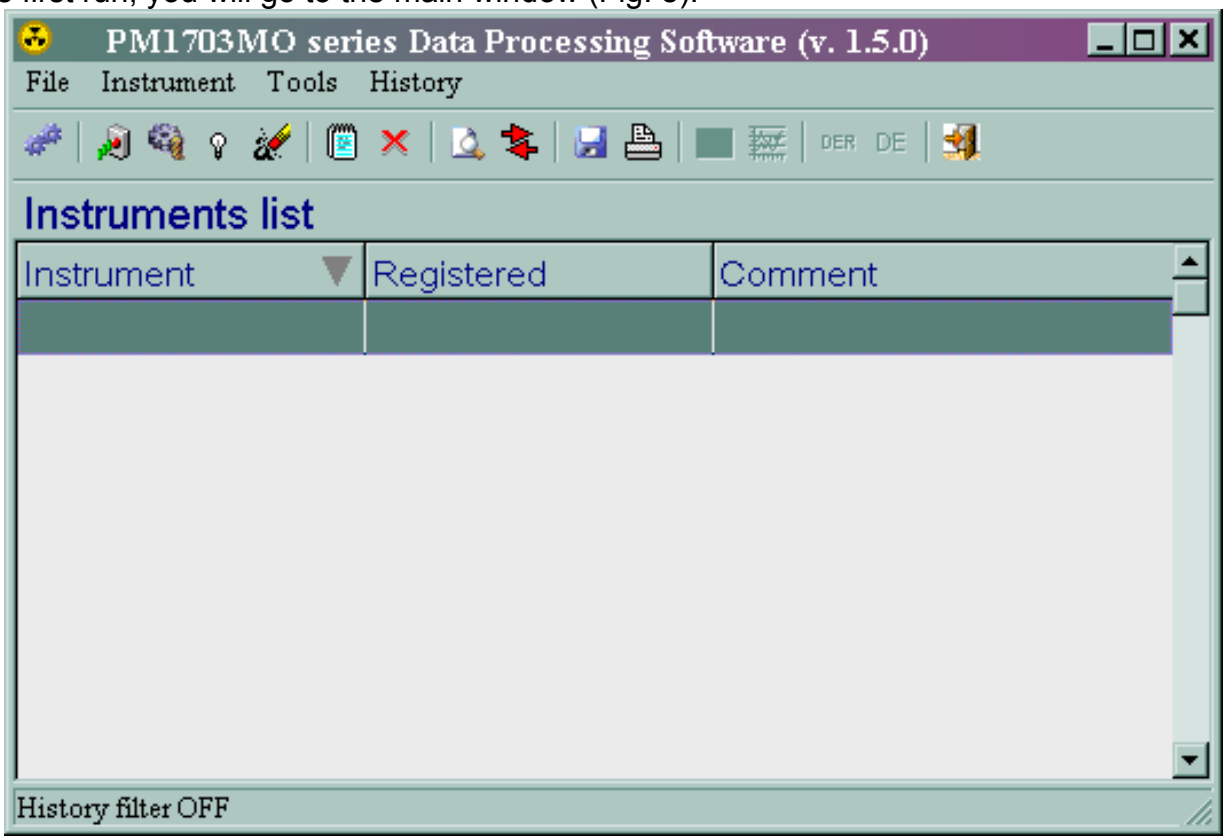

Fig. 8

The **PM1703MO Series Data Processing Software** program supports 4 menus - **File**, **Instrument**, **Tools**, and **History**. The following sections describe the functions and commands of each menu. A toolbar, below the menu bar, contains buttons that correspond to frequently used menu commands. When the cursor is placed on a toolbar button, the corresponding command name will be displayed alongside as a hint.

A Status Bar, in the bottom line displays some current program settings (Filter On/Off etc.), Graph mode and other information.

The **History** menu submenus and corresponding toolbar buttons will be active after first data download only.

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Step 3 - Menus

File Menu

This menu contains the commands to save and print files and allows the user to exit the program.

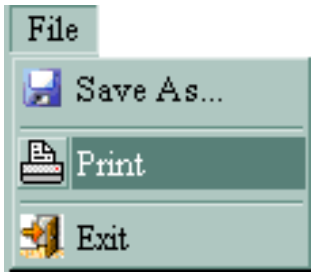

Fig. 9

Instrument Menu

This menu contains a set of commands to operate the instrument such as reading the history, changing internal instruments settings, etc.

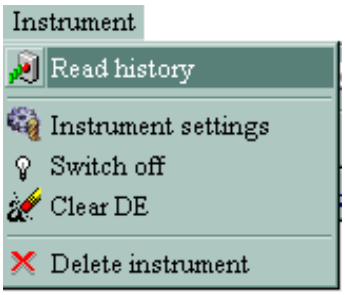

Fig. 10

Tools Menu

This menu contains set of the commands to control the event table window screen of **PM1703MO Series Data Processing Software**, such as apply different event filters, and toggle between instruments and events lists, and changing the program settings (changing the password to access database, setting up the connection to the instrument, selecting the measurement units).

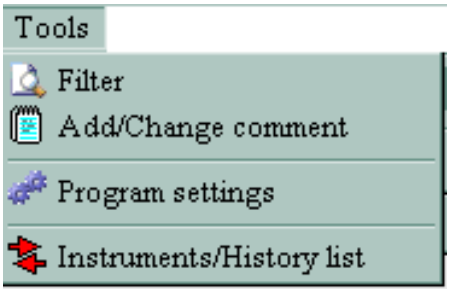

Fig. 11

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History Menu

This menu contains a set of commands to control the data representation window. It allows the user to toggle between table and graph data representation and between DER and DE graphs.

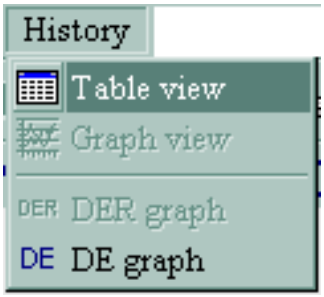

Fig. 12

Step 4 – Program settings

Before using Software several settings must be configured.

To set the program before using, click either the **Program Settings** command in the **Tools** menu or the **Program Settings** button on the toolbar .

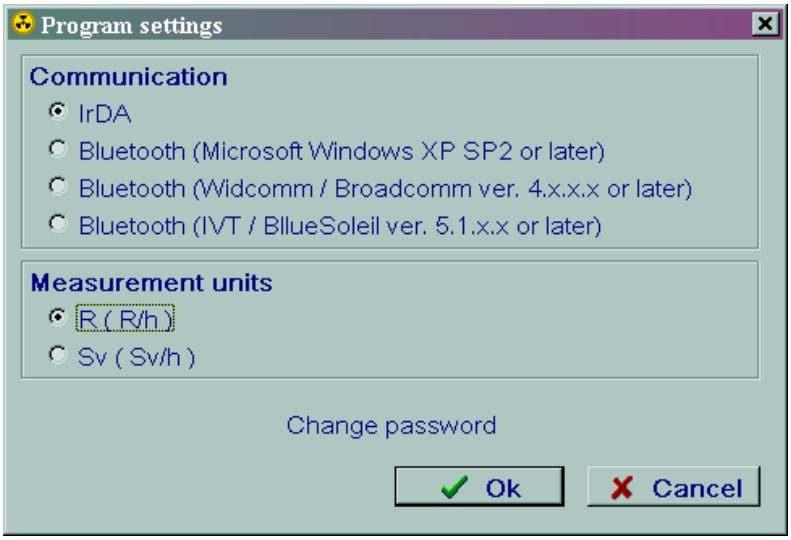

Fig. 13

Program Settings:

IrDA — select ( ) this radio button if communication with instrument will be under IrDA protocol.

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Bluetooth drivers — select ( ) needed radio button if communication with instrument will be under Bluetooth protocol.

Select appropriate **Bluetooth** driver supporting Bluetooth adapter that is installed in your system.

You can define producer name or version number of Bluetooth driver**:**
- referring to in-line documentation for Bluetooth adapter
or
- referring to installed Bluetooth adapter properties. Right-click on **My Computer** then go to *Properties >Device >Device Manager.* Select **Bluetooth** category. Select **Properties** by right-clicking. (Fig. 14)

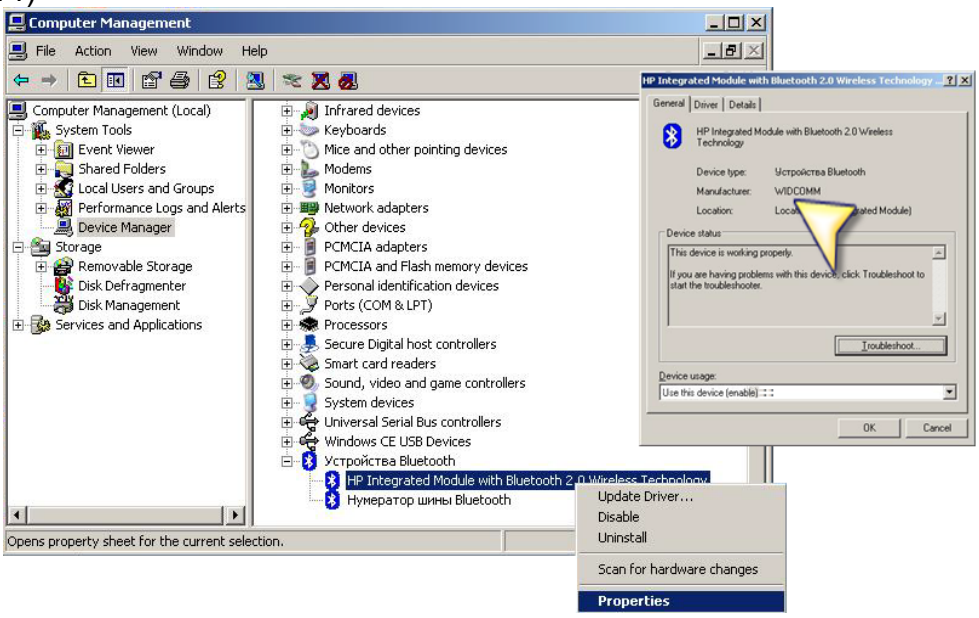

Fig. 14

Note!
Bluetooth driver version should be the same or higher as specified in Program settings windows:
- Microsoft Windows XP (**SP2 or higher**),
- Windcomm or Broadcomm (**4.x.x.x or higher**),
- BlueSoleil (**5.1.x.x or higher**).

If not, please download the most recent driver version from manufacturer's website:
- Microsoft (Windows XP SP2,Windows Vista) – http://support.microsoft.com/kb/841803/en-us
- Widcomm\Boardcomm – http://broadcom.com/products/Bluetooth
- IVT Corporation (BlueSoleil) – http://bluesoleil.com/

If you still fail to set Bluetooth adapter, contact your system administrator.

Measurement units — select appropriate radio button ( ) to change measurement units.

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Change password - default password is **“1”**. Password is case sensitive. To change password, first enter old password, then enter and confirm new password.

To save new settings, click **Ok** button**.**

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Step 5 – Reading the history

To read the history from the instrument, click either the **Read history** command in the **Instrument** menu or the **Read history** button on the toolbar (Fig. 15).

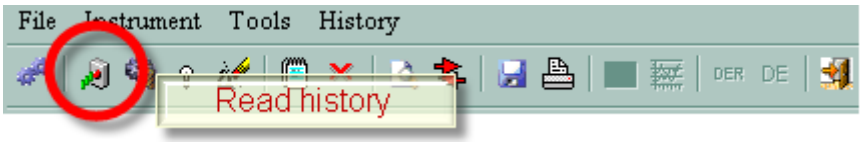

Fig. 15

Software will search for the instruments that are available for IR or Bluetooth communications (Fig. 16).

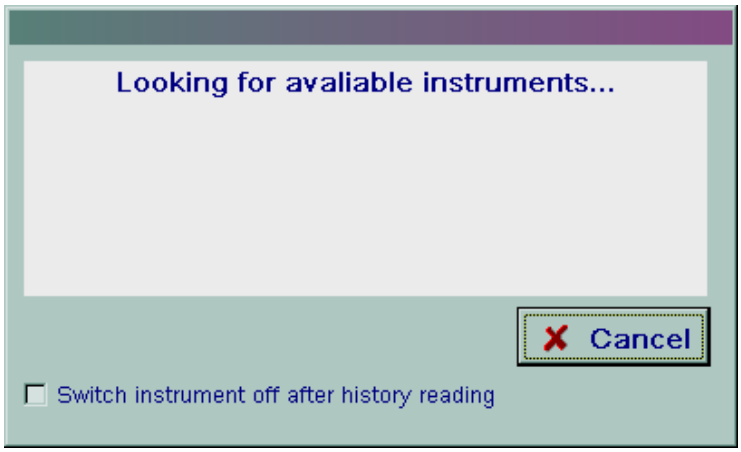

Fig. 16

The checkbox on the bottom left of the screen, allows the user to switch the instrument off automatically after all history events are downloaded.

After the desired instrument is found, data will automatically be downloaded from instrument and saved to the local database (Fig. 17).

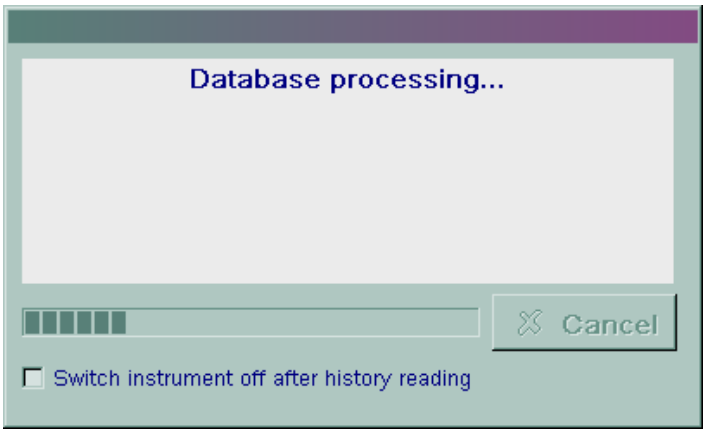

Fig. 17

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The main program window (**Instruments list**) will be populated with the instrument's name together with serial number, registration date (when the instrument was written into the database in format dd/mm/yy and comments (Fig. 18).

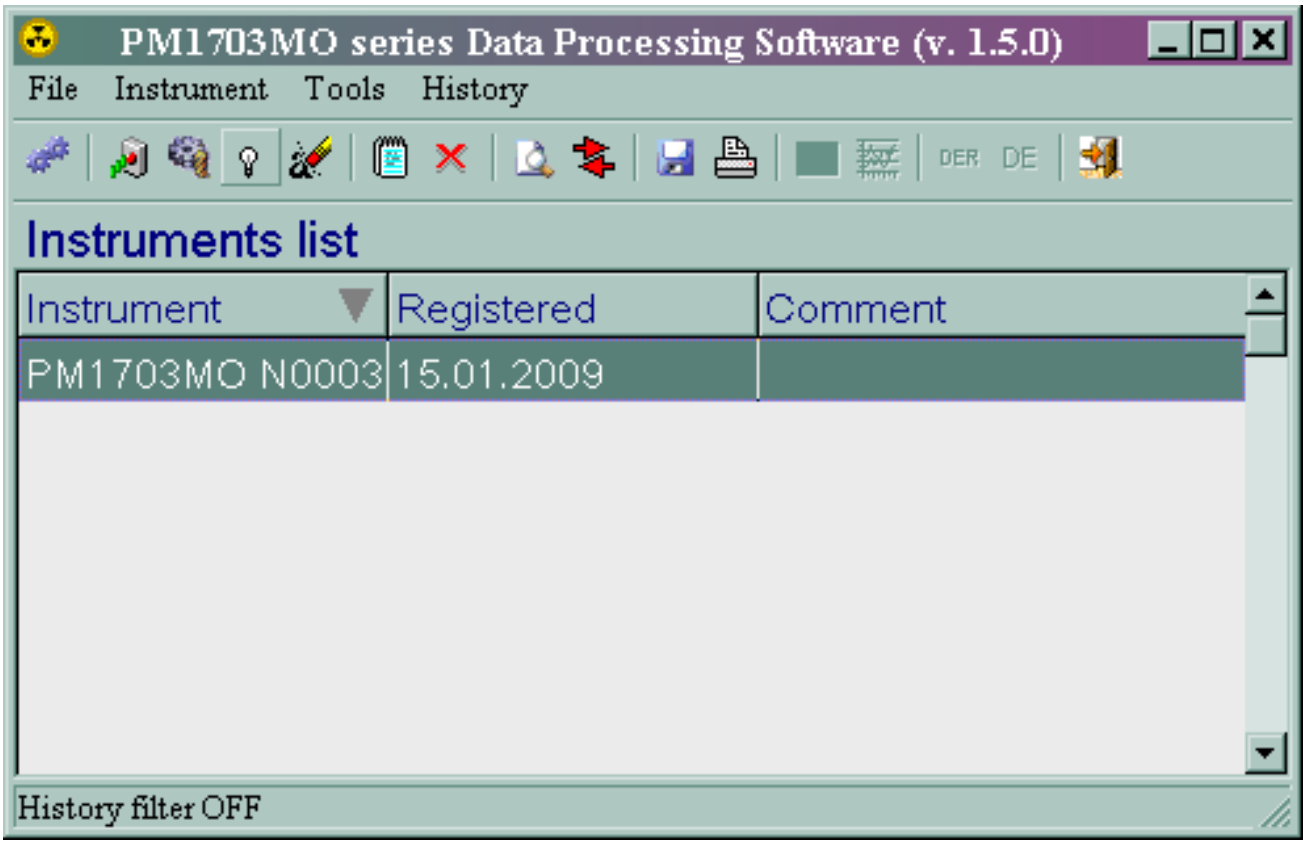

Fig. 18

If the annual operability evaluation period of this particular instrument is expired, you will see the window shown in Fig. 20.

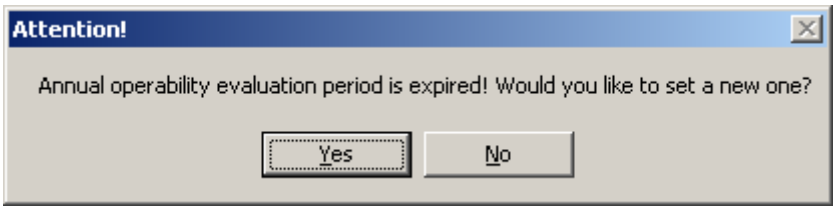

Fig. 19

Users can set a new evaluation date themselves. This function becomes available only when the current evaluation date is expired.

By clicking **Yes** button (Fig. 19) the user will open standard Windows calendar to set the next instrument evaluation date (Fig. 20).

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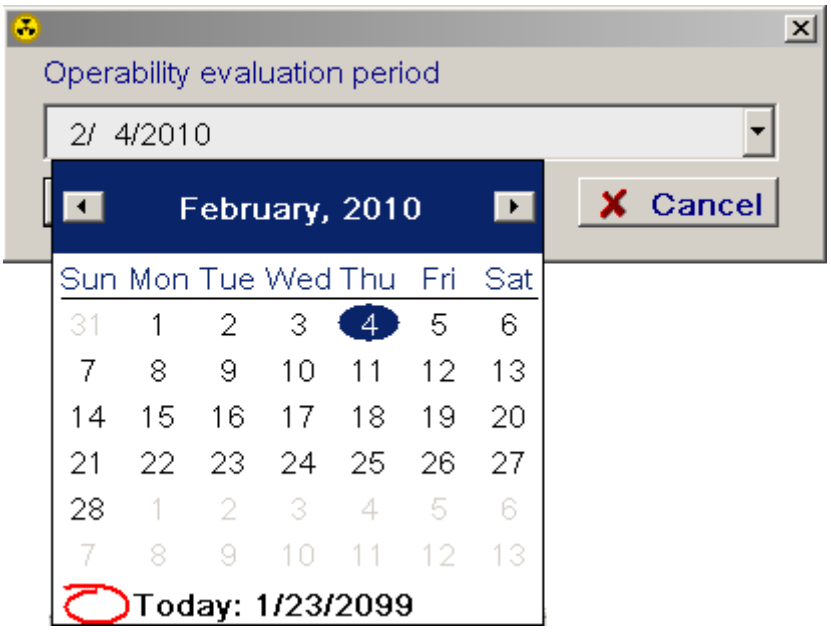

Fig. 20

Instrument's history reading resumes upon selection of the evaluation date.

To view the history data of a particular instrument, double click on the appropriate row in the instruments list. The **History list** window will appear (Fig. 21).

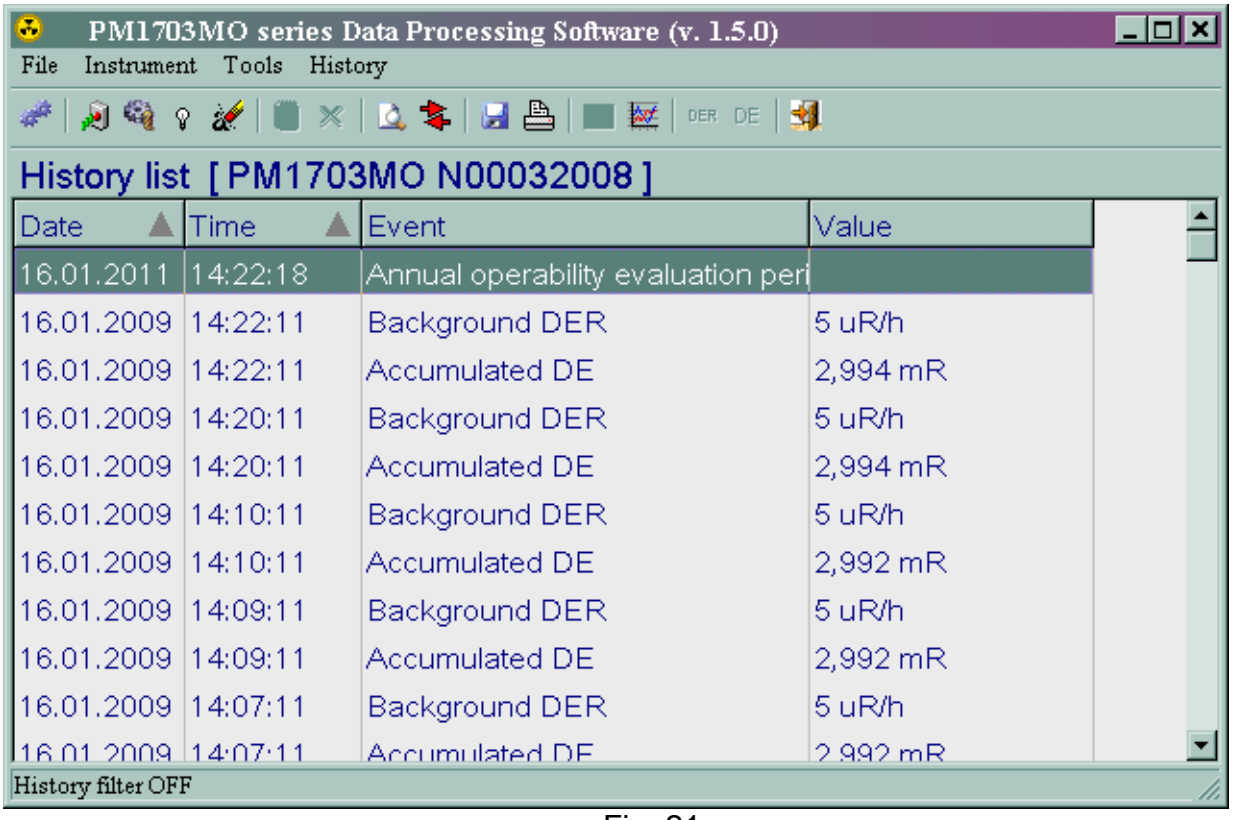
PM1703MO series Data Processing Software (v. 1.5.0)
File Instrument Tools History
History list [PM1703MO N00032008]
Date Time Event Value
16.01.2011 14:22:18 Annual operability evaluation peri
16.01.2009 14:22:11 Background DER 5 uR/h
16.01.2009 14:22:11 Accumulated DE 2,994 mR
16.01.2009 14:20:11 Background DER 5 uR/h
16.01.2009 14:20:11 Accumulated DE 2,994 mR
16.01.2009 14:10:11 Background DER 5 uR/h
16.01.2009 14:10:11 Accumulated DE 2,992 mR
16.01.2009 14:09:11 Background DER 5 uR/h
16.01.2009 14:09:11 Accumulated DE 2,992 mR
16.01.2009 14:07:11 Background DER 5 uR/h
History filter OFF

Fig. 21

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To switch back to the **Instruments list** click either the **Instruments/History list** command of the **Tools** menu or the appropriate toggle button on the toolbar (Fig. 22). Please, refer to Chapter 5 for more details.

Fig. 22

Double-clicking on the columns name of the **Instruments list** sorts the list by the clicked column (instrument's name or registration date or added comments).

Double-clicking on the columns name of the **History list** sorts the list by date and time simultaneously (Fig. 23).

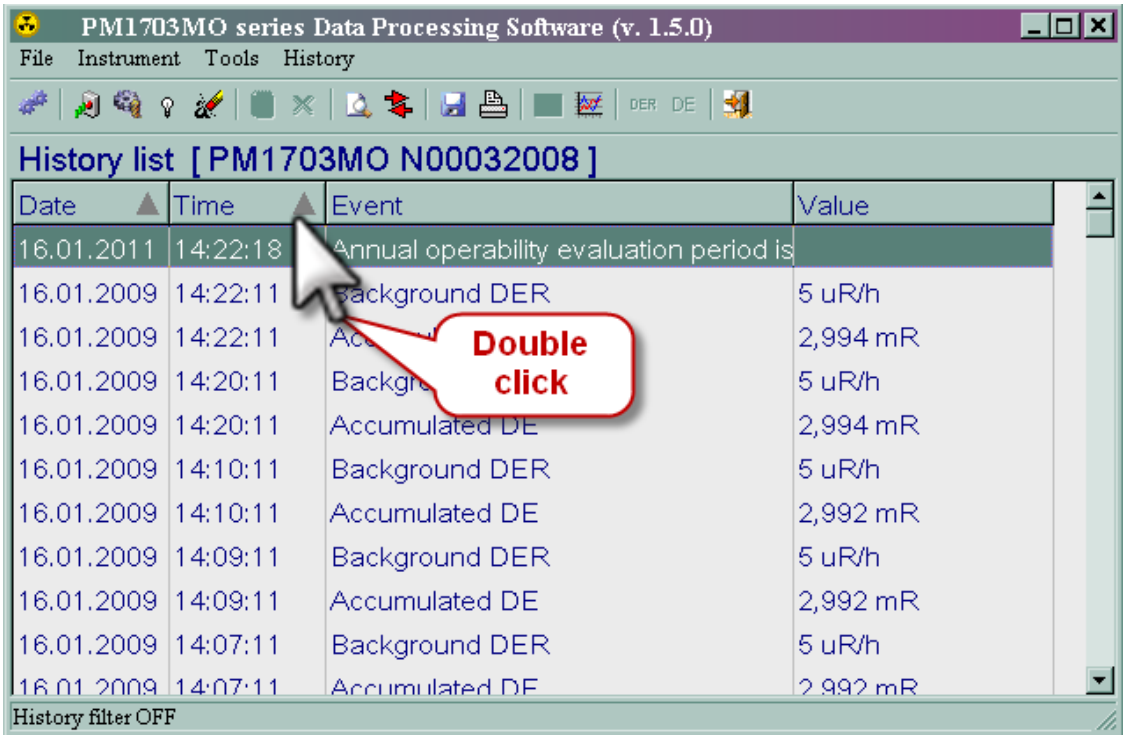
PM1703MO series Data Processing Software (v. 1.5.0)
File Instrument Tools History
History list [PM1703MO N00032008]
Date Time Event Value
16.01.2011 14:22:18 Annual operability evaluation period is
16.01.2009 14:22:11 Background DER 5 uR/h
16.01.2009 14:22:11 2,994 mR
16.01.2009 14:20:11 5 uR/h
16.01.2009 14:20:11 2,994 mR
16.01.2009 14:10:11 Background DER 5 uR/h
16.01.2009 14:10:11 Accumulated DE 2,992 mR
16.01.2009 14:09:11 Background DER 5 uR/h
16.01.2009 14:09:11 Accumulated DE 2,992 mR
16.01.2009 14:07:11 Background DER 5 uR/h
Double click
History filter OFF

Fig. 23

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PART II – MENU COMMANDS

Description of each menu command is shown along with the corresponding toolbar icon.

Chapter 3 Menu – File

This menu contains file processing commands.

"Save as" menu

Writes the data in the active window to the file. Either instruments list or history list can be saved to file with a user specified filename and path. All saved files are Microsoft® Excel compatible.

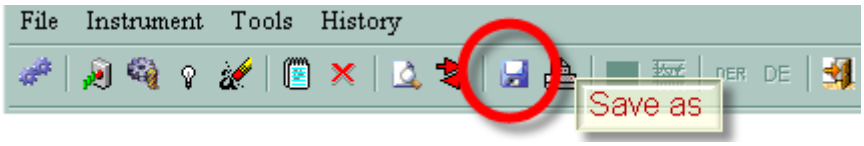

Fig. 24

"Print" menu

Sends the active window's data (instruments list, history list or plot) to the designated printer.

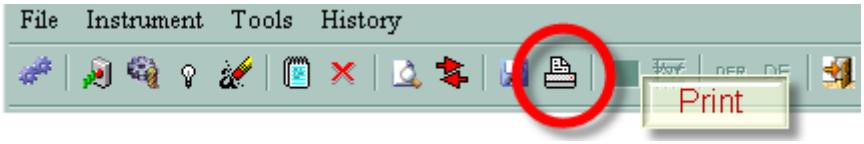

Fig. 25

"Exit" menu

Exits the program and returns to Windows.

Fig. 26

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Chapter 4 Menu – Instrument

The **Instrument** menu provides commands, allowing access to the instrument's internal parameters and history data.

"Read history" menu

As described in Chapter 2, the **Read history** menu provides user with access to the events history stored in the internal non-volatile memory of the instrument. Stored events include periodical background data as well as alarms, thresholds exceed, calibration events, switching instrument on and off, and changing the alarm signal events. All events are accompanied with corresponding timestamps.

"Instrument settings" menu

The instruments settings menu allows the user access to the instrument's internal parameters, such as threshold values, alarm settings, etc.

Fig. 27

Important note!

User is not recommended to change the factory preset settings. It may cause incorrect readings and faulty operation.

To access parameters you will be prompted to specify the password (Fig.28). Default password is "1".

Fig. 28

If the typed password is correct, the instrument's settings will be read and the **Instrument settings** window will appear (Fig. 29). This window has 3 tabs – **Instrument**, **Thresholds** and **General**.

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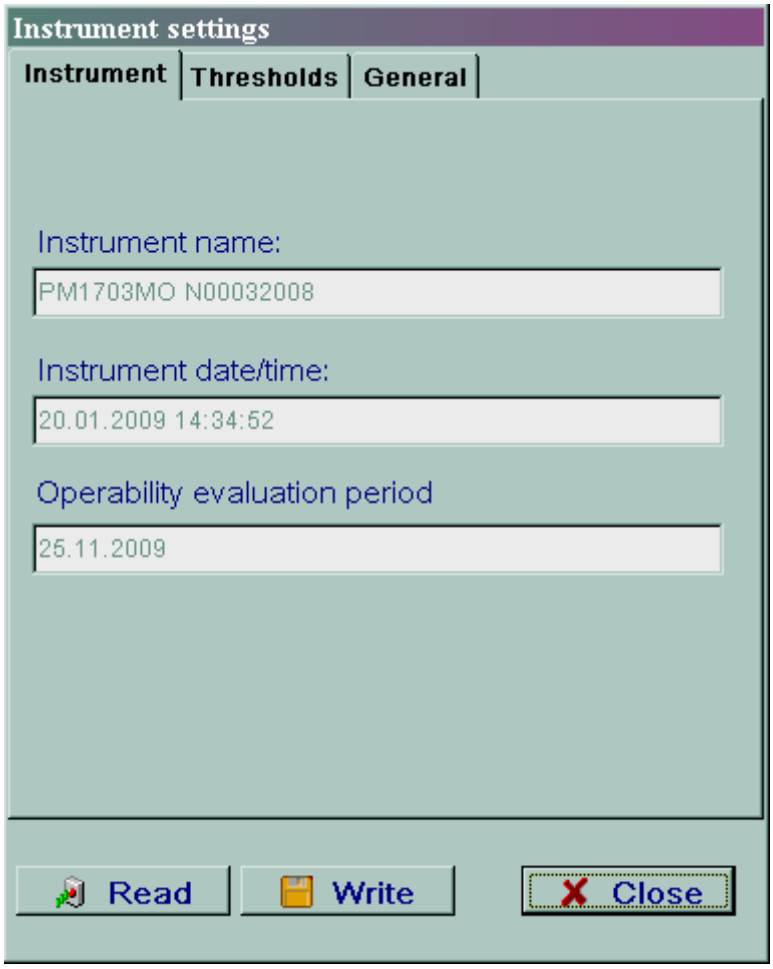

Fig. 29

The **Instrument** tab displays information about instrument's name, serial number, date/time as recorded in the internal memory and set instrument operability evaluation date. These settings are read-only. New evaluation date can be set only upon expiration of the previous evaluation date. Please, refer to Chapter 2 Step 5 for more details.

The **Thresholds** tab allows the user to read and change thresholds (Fig. 30). Numbers in brackets indicate allowable settings ranges that correspond to measurement ranges.

Attention!
Alarm levels in the **Search Mode** are derived from the ambient background. When the instrument runs through background calibration, it acquires a background reading and calculates the alarm levels automatically based on the value of **n coefficient** set by the user.

The value of n coefficient may be set in the range of 1.0 to 9.9 through every 0.1. The smaller the n coefficient value is, the more sensitive the instrument is to

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background radiation changes. Besides this behavior also increases the false alarms rate (false positives). Increasing the value of n coefficient decreases the sensitivity of the unit to minor changes in radiation background. It starts responding to considerable radiation field variations (intensive radiation sources nearby) only and probability of false alarms decreases.

The manufacturer's recommended value is 5.3.

To save changed threshold values to the instrument press the **Write** button on the bottom line. To close the window without saving changes press the **Close** button. To re-read settings press the **Read** button.

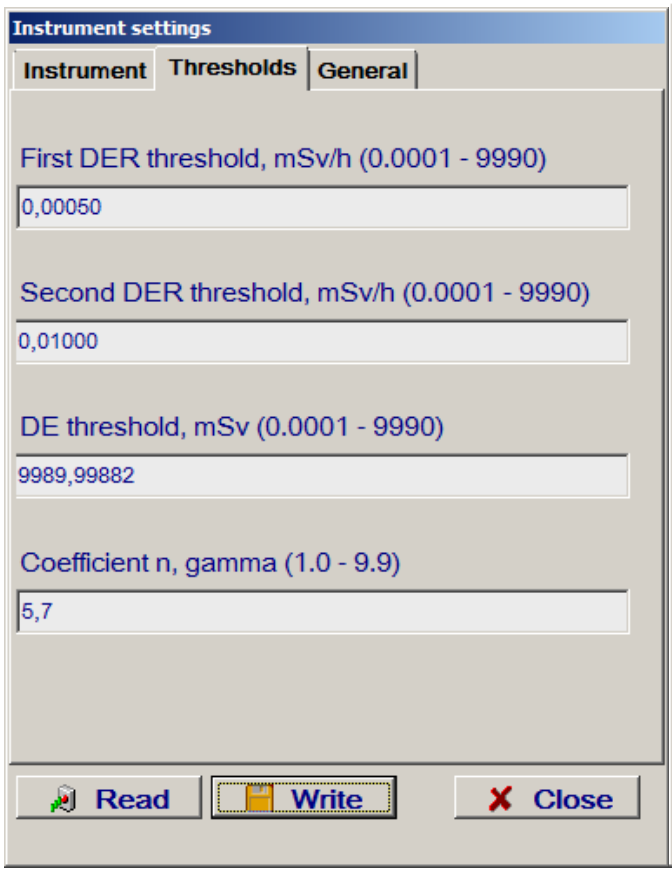

Fig. 30 a

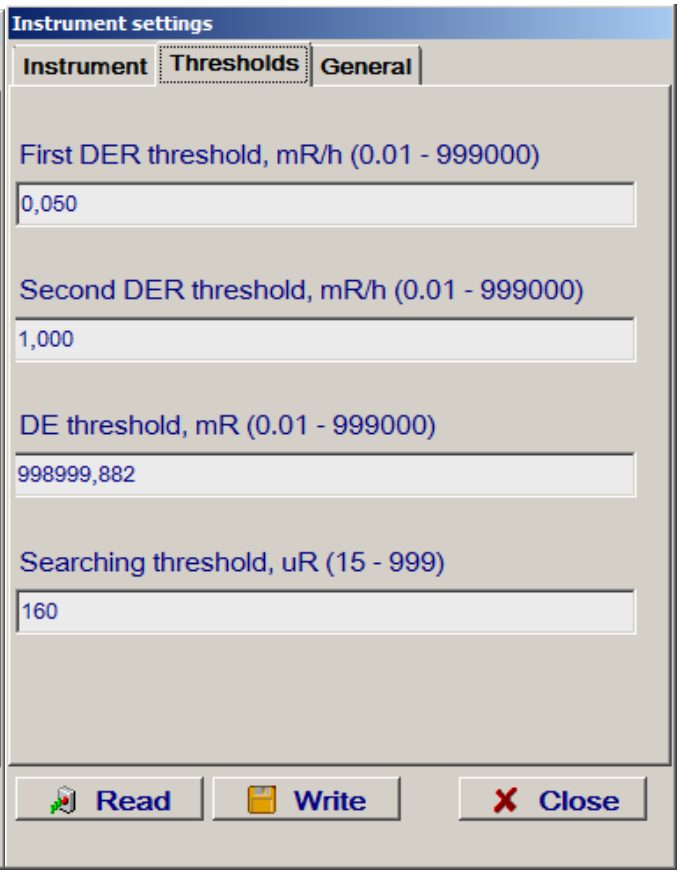

Fig. 30 b

The **General** tab in the **Instrument settings** window (Fig. 31) can be used to get and set the general parameters of the instrument, including alarm enabling, changing of the readings displaying mode, etc.

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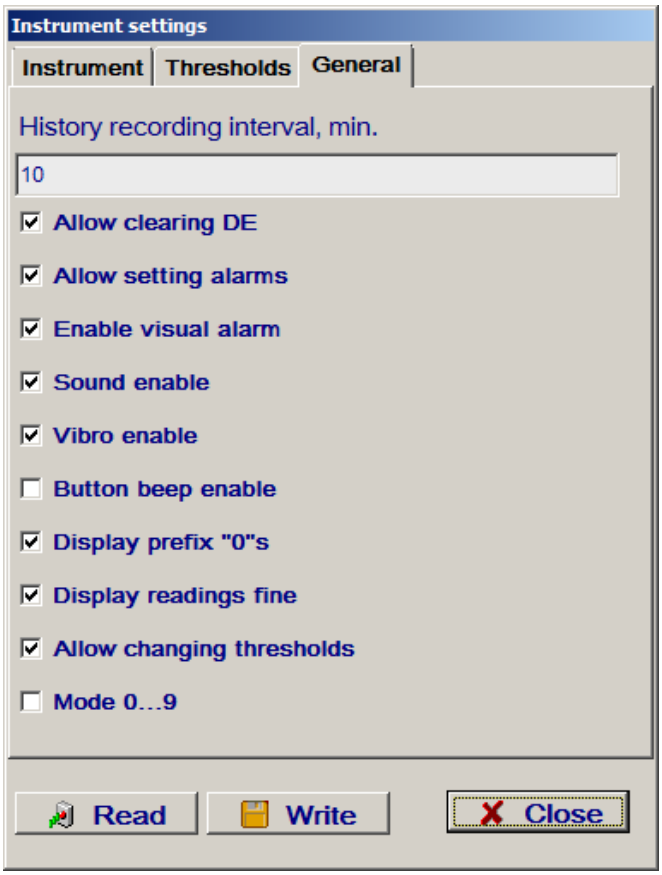

Fig. 31

General Settings:

History recording interval – gets and sets the time interval (in minutes) for background data logging to the internal nonvolatile memory;
Allow clearing DE – when this box is checked, the user can clear the accumulated DE from the instrument's memory by means of the instrument's buttons;
Allow setting alarms – when this box is checked, the user can switch the audio and vibration alarms on and off by means of the instrument's buttons;
Allow changing thresholds - when this box is checked, the user can change the threshold value by means of the instrument's buttons;
Sound enable – this checkbox enables the sound alarm;
Vibro enable – this checkbox enables the vibration alarm;
Button beep enable – when this box is checked button strokes are accompanied by a sound tone;
Display prefix "0"'s – this box allows the user to display insignificant preceding zeroes before the numerical value of the character display, i.e. 0005 uR/h versus 5 uR/h;
Display readings fine - when this box is checked, the display resolution is two digits after the decimal point, when unchecked – one digit after the decimal point;
Enable visual alarm - when this box is checked, the display backlight automatically turns on while instrument alarming and red alarm LED is enabled.

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Mode 0…9 - when this box is checked, the mode 0…9 is turned on. In this mode user can set the threshold and the device indicates the cases of its excess.

After turning on this mode and pressing the **MODE** button, in addition to the DER and DE measurement modes the instrument should display the screen of the 0…9 mode (with the number "0" in the absence of a dose rate threshold exceeding). In the case of exceeding on the screen will be displayed the degree of the excess on the scale from 0 to 9.
If the 0…9 mode is turned on, the line **Searching threshold** from the tab **Thresholds** is active, and it is possible to change the searching threshold (Fig. 30 b). If the 0…9 mode is disabled, instrument calculates the alarm levels based on the value of **n coefficient** set by the user (Fig. 30 a).

Note!
If after activation of the 0...9 mode the instrument doesn't display the window of this mode, it means that the instrument belongs to earlier versions and does not support this mode.

"Switch off" menu

Allows the user to switch off the instrument (Fig. 32). The user will be prompted to enter the password to perform this operation.

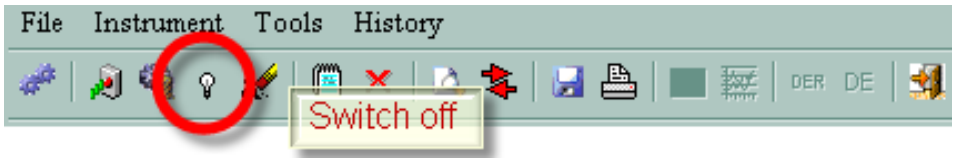

Fig. 32

"Clear DE" menu

Allows the user to null the accumulated ambient dose equivalent (DE) in the instrument's memory (Fig. 33).

Fig. 33

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Note!
This operation cannot be undone; all the information about accumulated DE will be lost permanently. You will be prompted to confirm this operation.

"Delete instrument" menu

Active in **Instruments list mode** only and for selected row only.

Allows user to delete the selected instrument's history records from the local database (Fig. 34).

Attention!
This operation cannot be undone; all history records from the selected instrument will be lost. You will be prompted to confirm this operation.

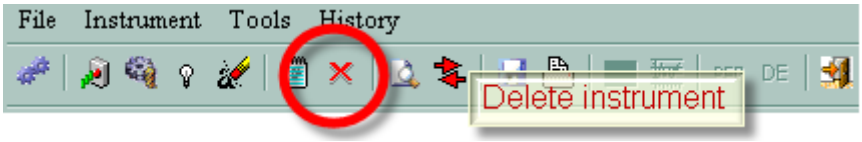

Fig. 34

Chapter 5 Menu – Tools

The **Tools** menu provides commands that allow the user to change the data representation on the program screen.

"Filter" menu

The **Filter** menu (Fig. 35) allows the user to specify which records in the database will be displayed in the **History list** window.

Fig. 35

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To apply the filter, select the **Filter** command from the **Tools** menu or press the appropriate button on the toolbar. **Filter** window will appear (Fig. 36).

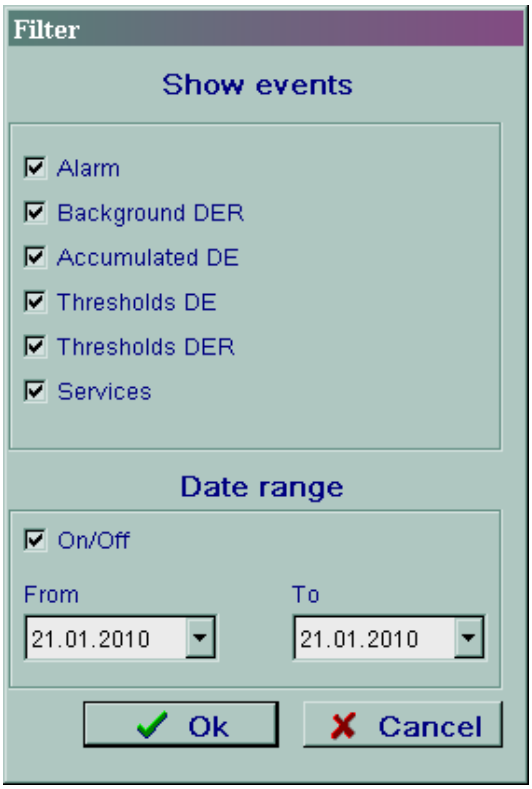

Fig. 36

The top section of the **Filter** window can be used to specify the type of events to be displayed on screen. The bottom section can be used to specify the time period. Both the event and data range filters can be used simultaneously. The Status line in left bottom corner of the main window shows the current status of the filter – **ON** or **OFF** (Fig. 37). The Data range filter is also active in the Graph view mode while the Event filter is only active in the History table view mode (refer to Chapter 6 for more details about view modes).

Fig. 37

"Add/change comment" menu

The **Add/change comment** menu (only active in the **Instruments list** view mode (refer to **Instruments/History list** menu in the current chapter for more details about view modes)) is used for adding or editing comments to selected instrument in the list (Fig. 38, Fig. 39).

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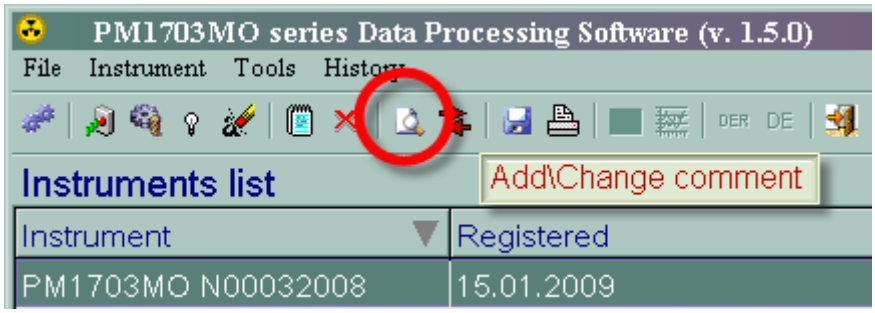

Fig. 38

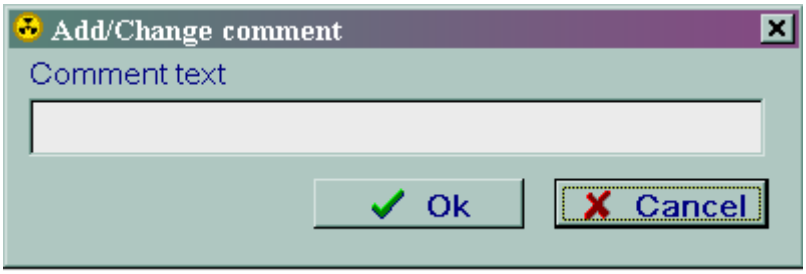

Fig. 39

Any text information may be added as a comment to a particular instrument, such as the user's name, etc. Comments are displayed on the **Instruments list** alongside the instrument's model, serial number and instrument's registration date (Fig. 40)

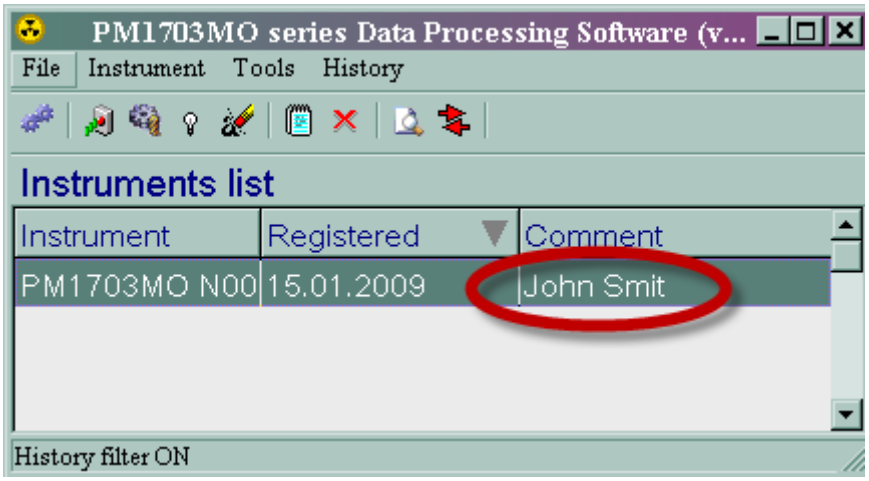

Fig. 40

"Program setting" menu

The **Program settings** menu allows the user to set the communication protocol (Bluetooth or IrDA), to select the driver supporting the installed **Bluetooth adapter**, as well as to set the measurement units[1] and to change access password. Please, refer to Chapter 2 Step 4 for more details.

[1] To synchronize instrument's measurement units with software-displayed units.

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To change the password, select the **Program settings** command from the **Tools** menu or press the appropriate button on the toolbar (Fig. 41).

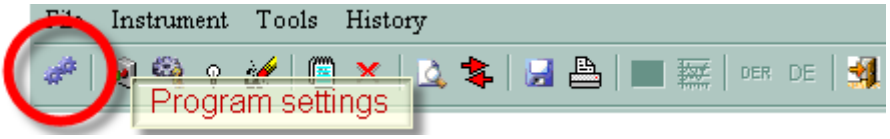

Fig. 41

Press the **Change password** button in the **Program settings** window. You will be prompted to type both the old and a new password (Fig. 42) and to confirm the new password.

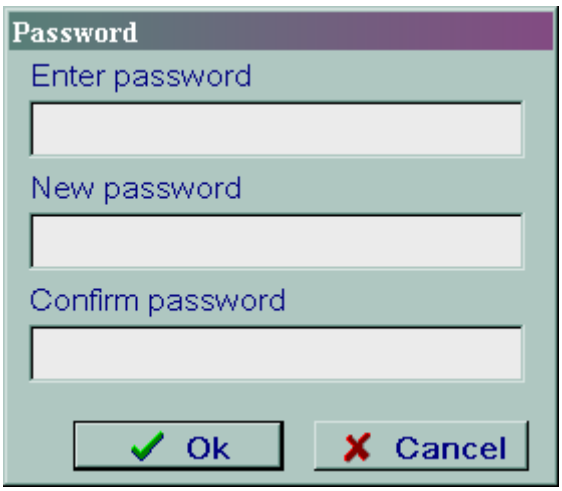

Fig. 42

"Instruments/History list" menu

The **Instruments/History list** menu and appropriate toolbar toggle button (Fig. 43) are used for switching between two main program windows – **Instruments list** and **History list**.

Fig. 43

Note!
This function is inactive if no instrument was selected

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Chapter 6 Menu – History

The **History menu** provides commands, allowing the user to change the history data representation. The History representation menu has two basic modes – **Table view** and **Graph view.** In the **Table view** mode all (or filtered, refer to Chapter 5, Filter menu) events are represented in the table. In the **Graph view** mode the accumulated dose equivalent (in **DE graph** mode) or background dose equivalent rate (in **DER graph** mode) history is represented as a graph with the corresponding timestamp on the X-axis.

"Table view" menu

The **Table view** menu (Fig. 44) is used for switching the main **History window** from the **History graph mode** to the default **table view mode.**

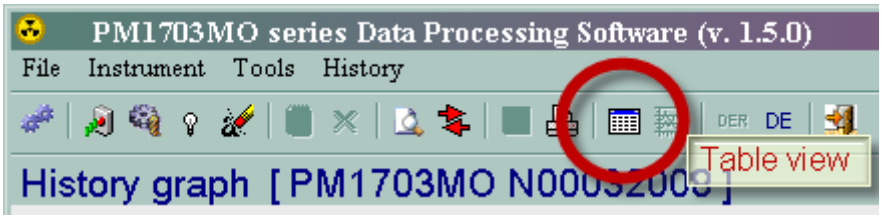

Fig. 44

"Graph view" menu

The **Graph view** menu (Fig. 45) is used for switching the main **History window** from the default **Table view mode** (dataset) to the **History graph mode**.

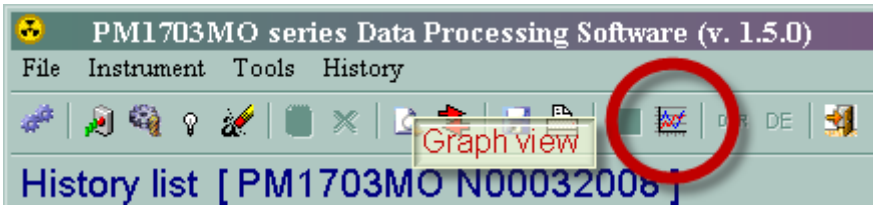

Fig. 45

After switching to the **Graph view mode**, the **History graph** window will appear (Fig. 46). The software provides a number of tools to simplify data study and analysis, as described below.

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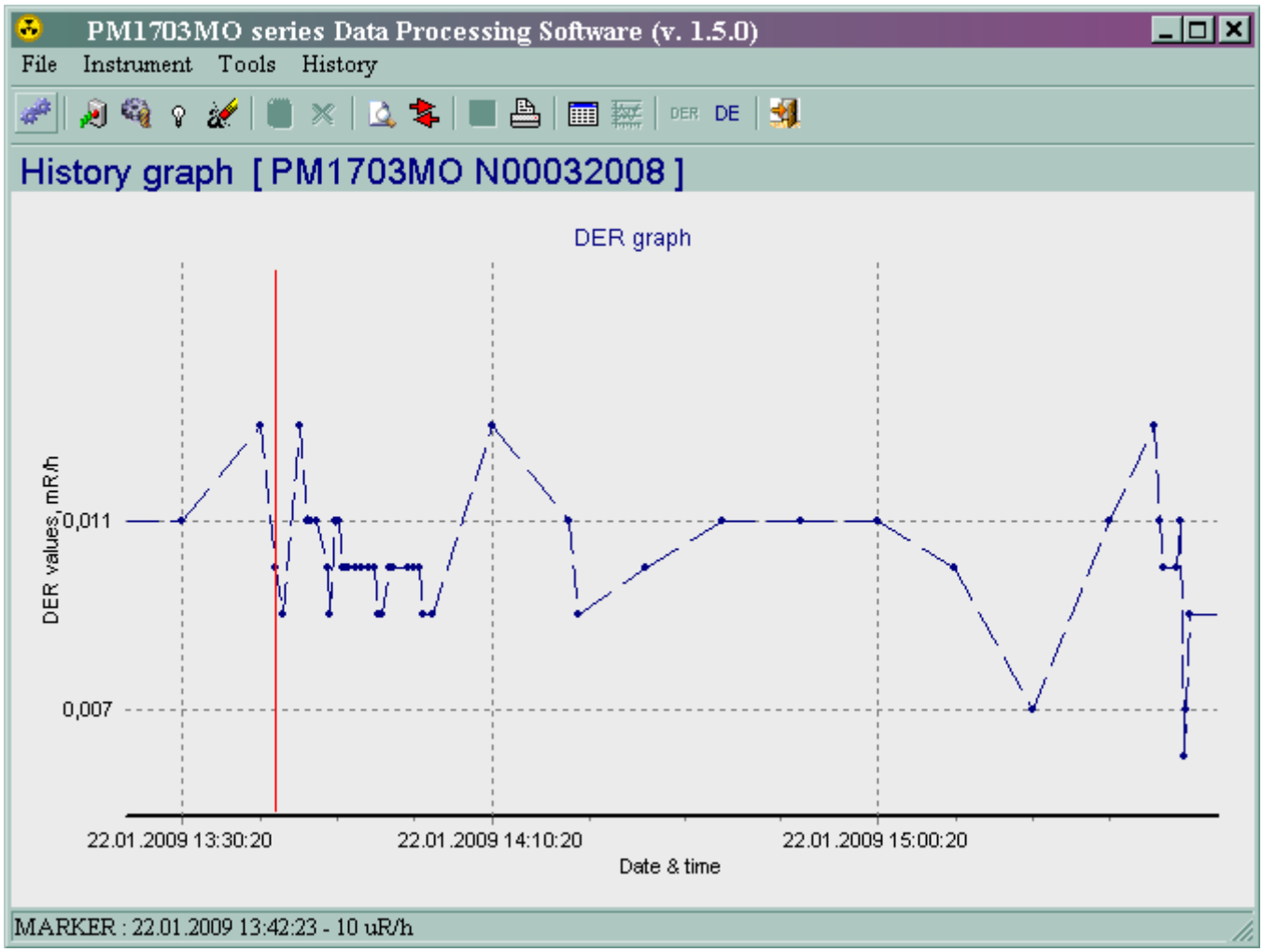

Fig. 46

The plot in this window graphically represents the changing background DER and is automatically scaled.

To select the area of interest (to move the entire plot), right click the mouse then drag the graph. Release the mouse button to complete the operation.

You may want to take a closer look at interesting areas of your data, particularly if you have a large number of points. **To enlarge the area of interest**, left click the mouse, then drag the area of interest with the cursor from the top left corner of the area of interest to the bottom right corner (Fig. 47). Release the mouse button to complete the operation. The area of interest will be magnified and the axes will be rescaled automatically.

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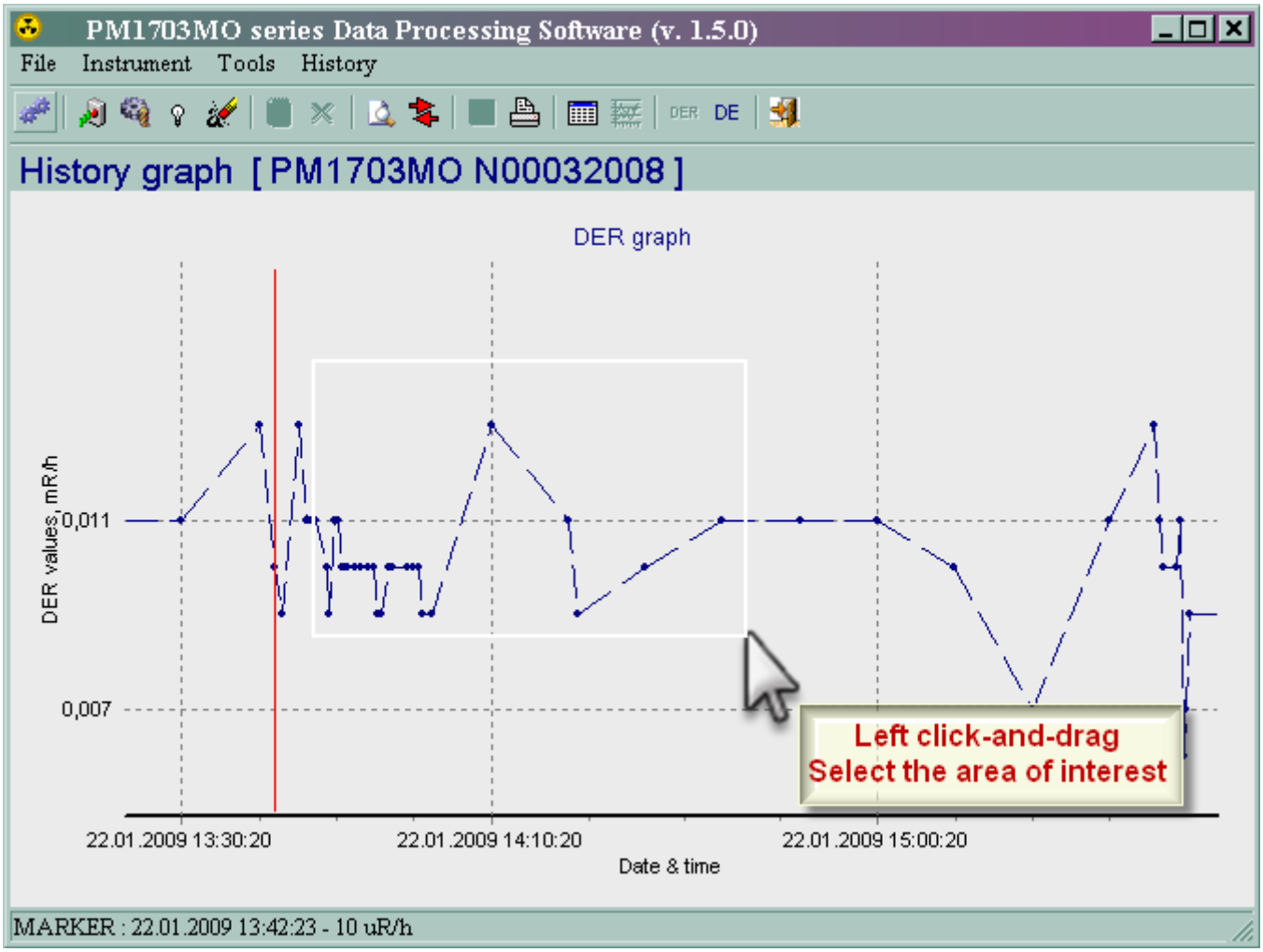

Fig. 47

To return the axes to their original scale, left click then drag any plot window location and move the cursor from bottom right to the top left corner. After releasing the mouse button axes will be returned to their original scale.

To read the data at a particular point, double-click on the desired plot point or on the corresponding X-axis date and time. The Red cursor line will be moved to the selected point; the X and Y marker values will be displayed in the status line (Fig. 48).

Attention!
The cursor can only be moved to a point but not between the points; the line does not represent the real background change between two points in the dataset.

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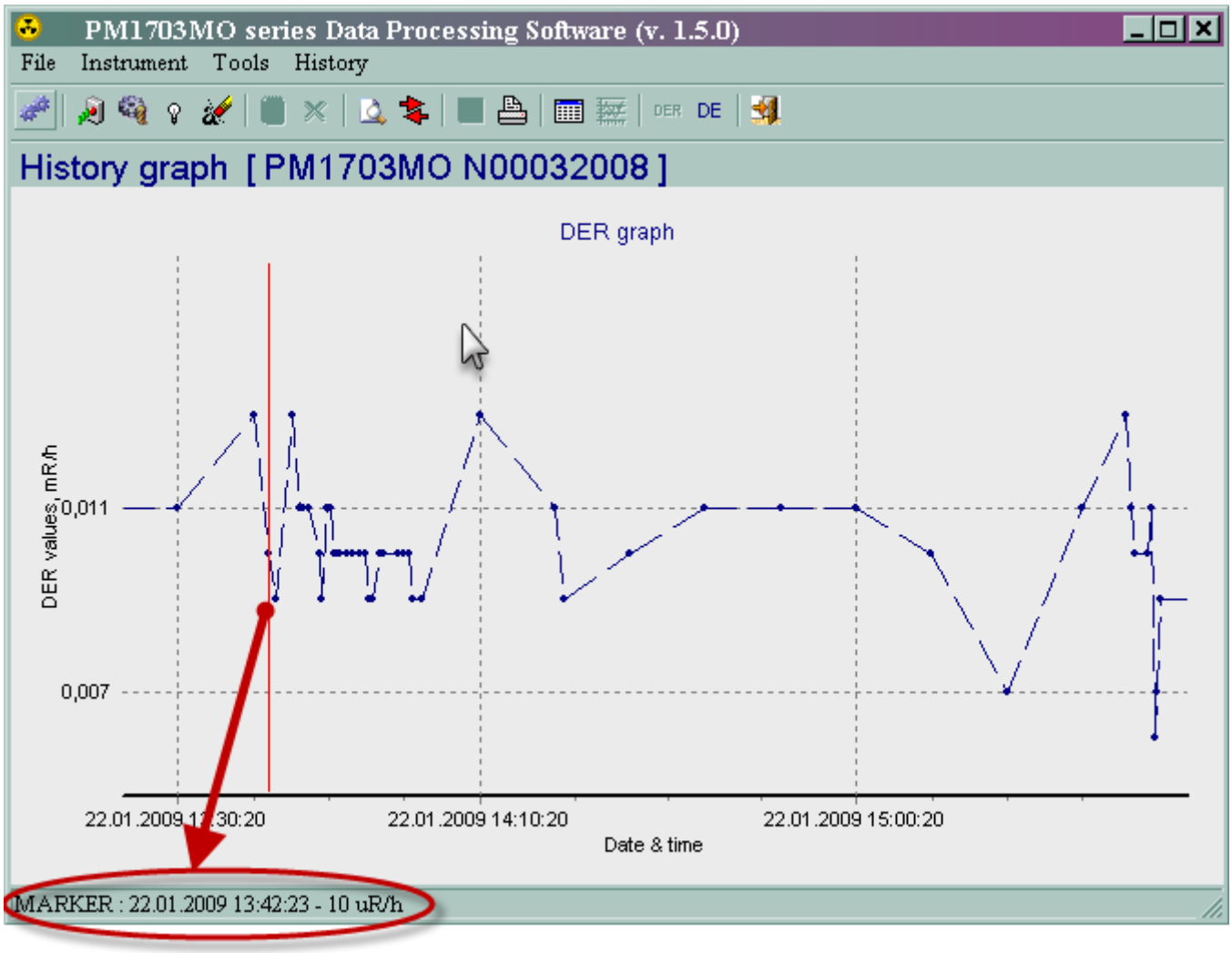

Fig. 48

To select a particular span of dates, apply the appropriate **Date range** filter (refer to Chapter 5 for more information).

All the highlighted operations are valid for both DE and DER plots.

"DER graph" menu

The **DER graph** menu (Fig.49) is used to switch the **History graph** window to the dose equivalent rate (DER) plot mode. This control is only active in the **Graph view** and not in the **Table view**.

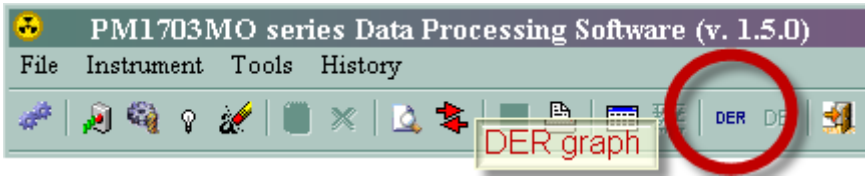

Fig. 49

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“DE graph” menu

The **DE graph** menu (Fig. 50) is used to switch the **History graph** window to the dose equivalent (DE) plot mode. This control is only active in the **Graph view**, not in the **Table view**.

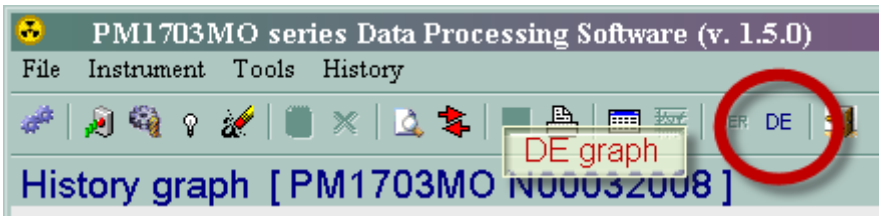

Fig. 50

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